
Mauna Loa Solar Observatory Observer's Log

Mon Jun 18 16:29:41 GMT 2018

Year: 18 Doy: 169

Observer: berkey

WEATHER COMMENT: berkey: Mon Jun 18 16:31:38 GMT 2018

Temp: 46.4f, Humidity: 76%, Pressure: 28.597in, Wind: 8mph from 105degs, Skies: thin cirrus overcast

____end____

KCOR COMMENT BY berkey: Tue Jun 19 00:53:04 GMT 2018

Inspection of the kcor fore optics area to try and understand how much further we can move the calpol out of the beam. It looks like the motor/translation range will allow for about 10-15mm more travel.

Currently we are unable to travel to the end of the rail because the soft limit prox sensor is set to close to the optical axis. With a modified prox sensor mount with should be able to easily the calpol an extra get ~8 or 9mm out of the beam.

To get the rest of the range we may need to either build a wider mount or cut down the sensor flag.

As of right now no changes were made to the instrument.

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KCOR COMMENT BY berkey: Tue Jun 19 01:56:15 GMT 2018

Testing out a new version of the observer MC4u mechanism controller. The older version had an issue that at times it could take up to 30 seconds to register an observer command to move a mechanisms. This painfully long UI/mechanism response was due to the way the controller did background polling of the position and status of sensors and mechanisms. These checks were done sequentially, with a couple of them requiring slow telnet sessions to complete.

Under the new code; status tests are done in parallel while requests for motion are still done sequentially in a blocking fashion (while the move is happening we don't poll the positions of mechanisms or sensors.) We also changed the telnet sessions that were used to get the port status of the power strips to a pure labview tcpip sessions that appear to give the same functionally >10x the speed.

Taken together the UI is now very responsive to inputs and will process a request to close the cover (or mechanisms) at the moment the cover push is requested :)

The older implementation of the GUI is still available on the desktop with the old short cut. The new version is also available on the desktop called "MC4U testing".

Let me know if you guys have any issues running the new Testing version.

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GENERAL COMMENT BY berkey: Tue Jun 19 01:56:25 GMT 2018

No data today.

____end____

ONSITE STAFF: berkey